A

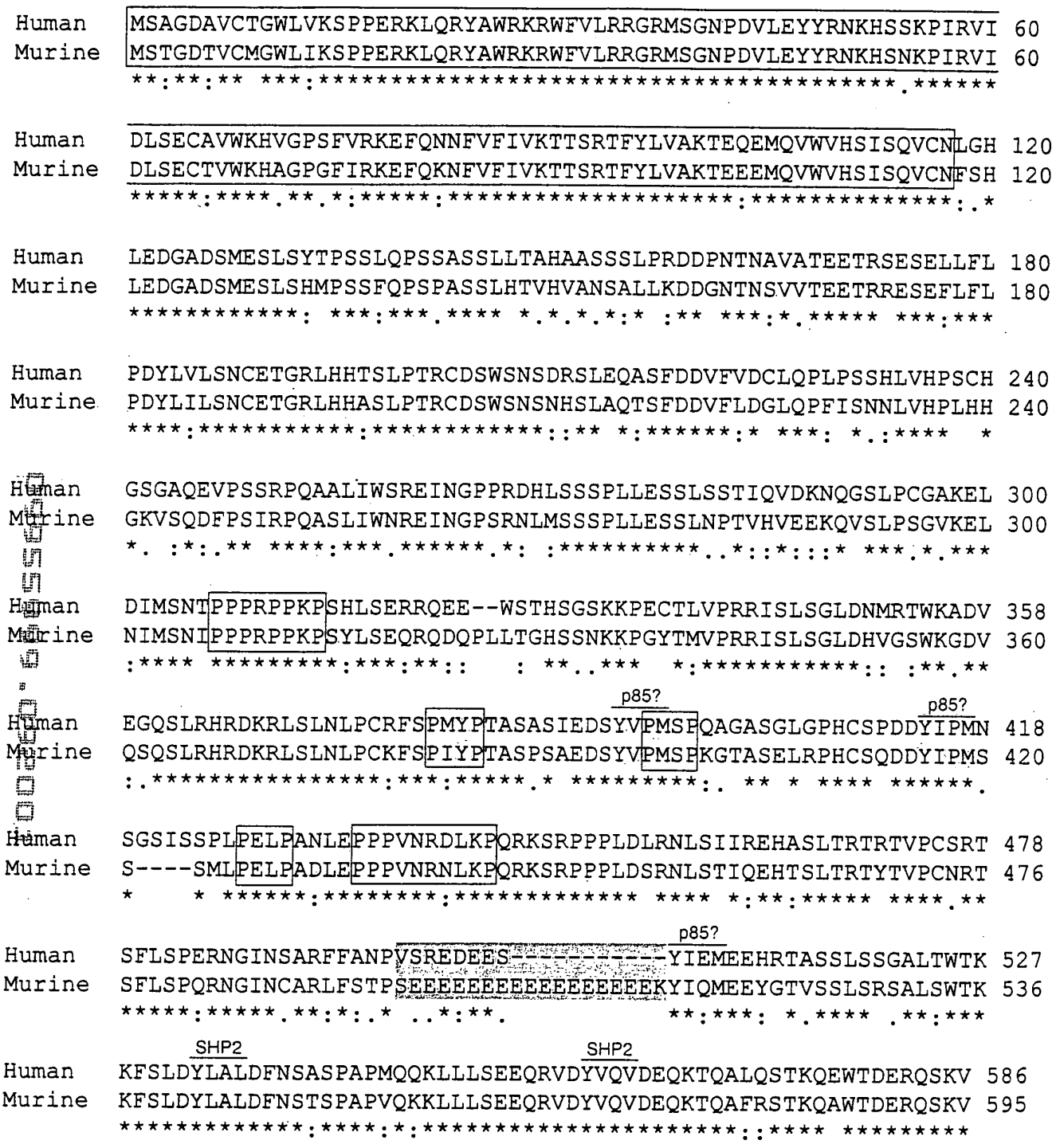
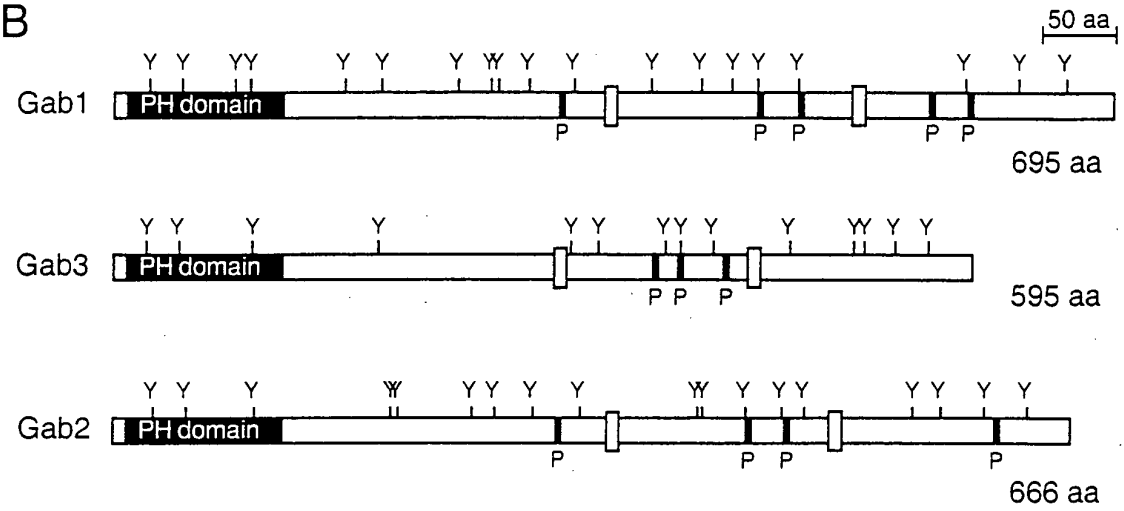

Human MSAGDAVCTGWLVKSPPERKLQRYAWRKRWFVLRRGRMSGNPDVLEYYRNKHSSKPIRVI 60
Murine MSTGDTVCMGWLIKSPPERKLQRYAWRKRWFVLRRGRMSGNPDVLEYYRNKHSNKPIRVI 60
Human DLSECAVWKHVGPSFVRKEFQNNFVFIVKTTSRTFYLVAKTEQEMQVWVHSISQVCNLGH 120
Murine DLSECTVWKHAGPGFIRKEFQKNFVFIVKTTSRTFYLVAKTEEEMQVWVHSISQVCNFSH 120
Human LEDGADSMESLSYTPSSLQPSSASSLLTAHAASSSLPRDDPNTNAVATEETRSESELLFL 180
Murine LEDGADSMESLSHMPSSFQPSPASSLHTVHVANSALLKDDGNTNSVVTEETRRESEFLFL 180
Human PDYLVLSNCETGRLHHTSLPTRCDSWSNSDRSLEQASFDDVFVDCLQPLPSSHLVHPSCH 240
Murine PDYLILSNCETGRLHHASLPTRCDSWSNSNHSLAQTSFDDVFLDGLQPFISNNLVHPLHH 240
Human GSGAQEVPSSRPQAALIWSREINGPPRDHLSSSPLLESSLSSTIQVDKNQGSLPCGAKEL 300
Murine GKVSQDFPSIRPQASLIWNREINGPSRNLMSSSPLLESSLNPTVHVEEKQVSLPSGVKEL 300
Human DIMSNTPPPRPPKPSHLSERRQEE--WSTHSGSKKPECTLVPRRISLSGLDNMRTWKADV 358
Murine NIMSNIPPPRPPKPSYLSEQRQDQPLLTGHSSNKKPGYTMVPRRISLSGLDHVGSWKGDV 360
p85?
p85?
Human EGQSLRHRDKRLSLNLPCRFSPMYPTASASIEDSYVPMSPQAGASGLGPHCSPDDYIPMN 418
Murine QSQSLRHRDKRLSLNLPCKFSPIYPTASPSAEDSYVPMSPKGTASELRPHCSQDDYIPMS 420
Human SGSISSPLPELPANLEPPPVNRDLKPQRKSRPPPLDLRNLSIIREHASLTRTRTVPCSRT 478
Murine S----SMLPELPADLEPPPVNRNLKPQRKSRPPPLDSRNLSTIQEHTSLTRTYTVPCNRT 476
p85?
Human SFLSPERNGINSARFFANPVSREDEES----------YIEMEEHRTASSLSSGALTWTK 527
Murine SFLSPQRNGINCARLFSTPSEEEEEEEEEEEEEEEEKYIQMEEYGTVSSLSRSALSWTK 536
SHP2
SHP2
Human KFSLDYLALDFNSASPAPMQQKLLLSEEQRVDYVQVDEQKTQALQSTKQEWTDERQSKV 586
Murine KFSLDYLALDFNSTSPAPVQKKLLLSEEQRVDYVQVDEQKTQAFRSTKQAWTDERQSKV 595

Figure 1A

B



C

```
Gab3   MSTG--D-TVCMGWLIKSPPERKLQRYAWRKRWFVLRRGR   37
Gab2   MSGGGGDDVVCTGWLRKSPPEKKLRRYAWKKRWFILRSGR   40
Gab1   MSGG--E-VVCSGWLRKSPPEKKLKRYAWKRRWFVLRSGR   37
       ** *  : .** *** *****:**:****::***:** **

Gab3   MSGNPDVLEYYRNKHSNKPIRVIDLSECTVWKHAGPGFIR   77
Gab2   MSGDPDVLEYYKNEHSKKPLRIINLNLCEQVD-AGLTFNK   79
Gab1   LTGDPDVLEYYKNDHAKKPIRIIDLNLCQQVD-AGLTFNK   76
       ::*:*******:*.*::**:*:*:*. *   . **  * :

Gab3   KEFQKNFVFIVKTTSRTFYLVAKTEEEMQVWVHSISQVCN  117
Gab2   KELQDSFVFDIKTSERTFYLVAETEADMNKWVQSICQICG  119
Gab1   KEFENSYIFDINTIDRIFYLVADSEEDMNKWVRCICDICG  116
       **:..::* ::* .* *****.:* :*: **:.*.::*.
```

Figure 1B and C